

CLAIMS

1. A dispersion comprising
 - (A) hydrotalcite compound particles having
 - 5 (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering method,
 - (2) a specific surface area of 0.5 to 10 m^2/g as measured by a BET method, and
 - 10 (3) a platy crystal particle shape, and
 - (B) an organic polar solvent.
2. A dispersion according to Claim 1, wherein the content of the hydrotalcite compound particles is 10 to 15 30% by weight.
3. A dispersion according to Claim 1, wherein the hydrotalcite compound particles have an average aspect ratio (major axis diameter/thickness) of 1.7 to 8. 20
4. A dispersion according to Claim 1, wherein the hydrotalcite compound particles have been surface-treated with a surface-treating agent.
- 25 5. A dispersion according to Claim 1, wherein the hydrotalcite compound particles have been produced without conducting any wet grinding treatment in an organic polar solvent.
- 30 6. A dope for dry or wet production of polyurethane article, comprising
 - (A) hydrotalcite compound particles having
 - (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering

method,

- (2) a specific surface area of 0.5 to 10 m²/g as measured by a BET method, and
- (3) a platy crystal particle shape,
- 5 (B) an organic polar solvent, and
- (C) a polyurethane.

7. A dope according to Claim 6, wherein the content of the hydrotalcite compound particles is 0.05 to 5% by weight and the content of the polyurethane is 10 to 45% by weight.

8. A dope according to Claim 6, wherein the hydrotalcite compound particles have an average aspect ratio (major axis diameter/thickness) of 1.7 to 8.

9. A dope according to Claim 6, wherein the hydrotalcite compound particles have been surface-treated with a surface-treating agent.

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10. A dope according to Claim 6, wherein the hydrotalcite compound particles have been produced without conducting any wet grinding treatment in an organic polar solvent.

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11. A polyurethane fiber containing (A) hydrotalcite compound particles having

- (1) an average secondary particle diameter of 0.60 to 3 μ m as measured by a laser beam diffraction scattering method,
- 30 (2) a specific surface area of 0.5 to 10 m²/g as measured by a BET method, and
- (3) a platy crystal particle shape.

12. A polyurethane fiber according to Claim 11, wherein the content of the hydrotalcite compound particles is 0.1 to 10% by weight.
- 5 13. A polyurethane fiber according to Claim 11, wherein the hydrotalcite compound particles have an average aspect ratio (major axis diameter/thickness) of 1.7 to 8.
14. A polyurethane fiber according to Claim 11, wherein
10 the hydrotalcite compound particles have been surface-treated with a surface-treating agent.
15. A polyurethane fiber according to Claim 11, which has been produced from a dope set forth in Claim 6, by a
15 dry or wet method.
16. A dope for dry or wet production of aromatic polyamide article, comprising
(A) hydrotalcite compound particles having
20 (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering method,
(2) a specific surface area of 0.5 to 10 m^2/g as measured by a BET method, and
25 (3) a platy crystal particle shape,
(B) an organic polar solvent, and
(C) an aromatic polyamide.
17. A dope according to Claim 16, wherein the content
30 of the hydrotalcite compound particles is 0.05 to 5% by weight and the content of the aromatic polyamide is 5 to 40% by weight.
18. A dope according to Claim 16, wherein the

hydrotalcite compound particles have an average aspect ratio (major axis diameter/thickness) of 1.7 to 8.

19. A dope according to Claim 16, wherein the
5 hydrotalcite compound particles have been surface-treated with a surface-treating agent.

20. An aromatic polyamide film or fiber containing (A) hydrotalcite compound particles having
10 (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering method,
(2) a specific surface area of 0.5 to 10 m^2/g as measured by a BET method, and
15 (3) a platy crystal particle shape.

21. An aromatic polyamide film or fiber according to Claim 20, wherein the content of the hydrotalcite compound particles is 0.1 to 10% by weight.

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22. An aromatic polyamide film or fiber according to Claim 20, wherein the hydrotalcite compound particles have an average aspect ratio (major axis diameter/thickness) of 1.7 to 8.

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23. An aromatic polyamide film or fiber according to Claim 20, wherein the hydrotalcite compound particles have been surface-treated with a surface-treating agent.

- 30 24. An aromatic polyamide film or fiber according to Claim 20, which has been produced from a dope set forth in Claim 16, by a dry or wet method.

25. Hydrotalcite compound particles for dispersion in

- organic polar solvent, having
- (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering method,
 - 5 (2) a specific surface area of 0.5 to 10 m^2/g as measured by a BET method, and
 - (3) a platy crystal particle shape.
26. Hydrotalcite compound particles according to Claim
- 10 25, having a platy crystal particle shape having an average aspect ratio (major axis diameter/thickness) of 1.7 to 8.
27. Hydrotalcite compound particles according to Claim
- 15 25, which have been surface-treated with a surface-treating agent.
28. Hydrotalcite compound particles according to Claim
- 25, which have been surface-modified with at least one
- 20 kind selected from the group consisting of silicon compounds, boron compounds and aluminum compounds.
29. Hydrotalcite compound particles according to Claim
- 3 or 25, wherein the surface-treating agent is at least
- 25 one kind selected from the group consisting of higher fatty acids, anionic surfactants, phosphoric acid esters and coupling agents.
30. Hydrotalcite compound particles according to Claim
- 30 25, having an average secondary particle diameter of 0.8 to 2 μm as measured by a laser beam diffraction scattering method.
31. Hydrotalcite compound particles according to Claim

25, wherein the proportion of the particles having secondary particle diameters of 5 μm or more as measured by a laser beam diffraction scattering method is 1% or less.

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32. Hydrotalcite compound particles according to Claim 25, having a platy crystal particle shape having an average aspect ratio (major axis diameter/thickness) of 2 to 6.

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